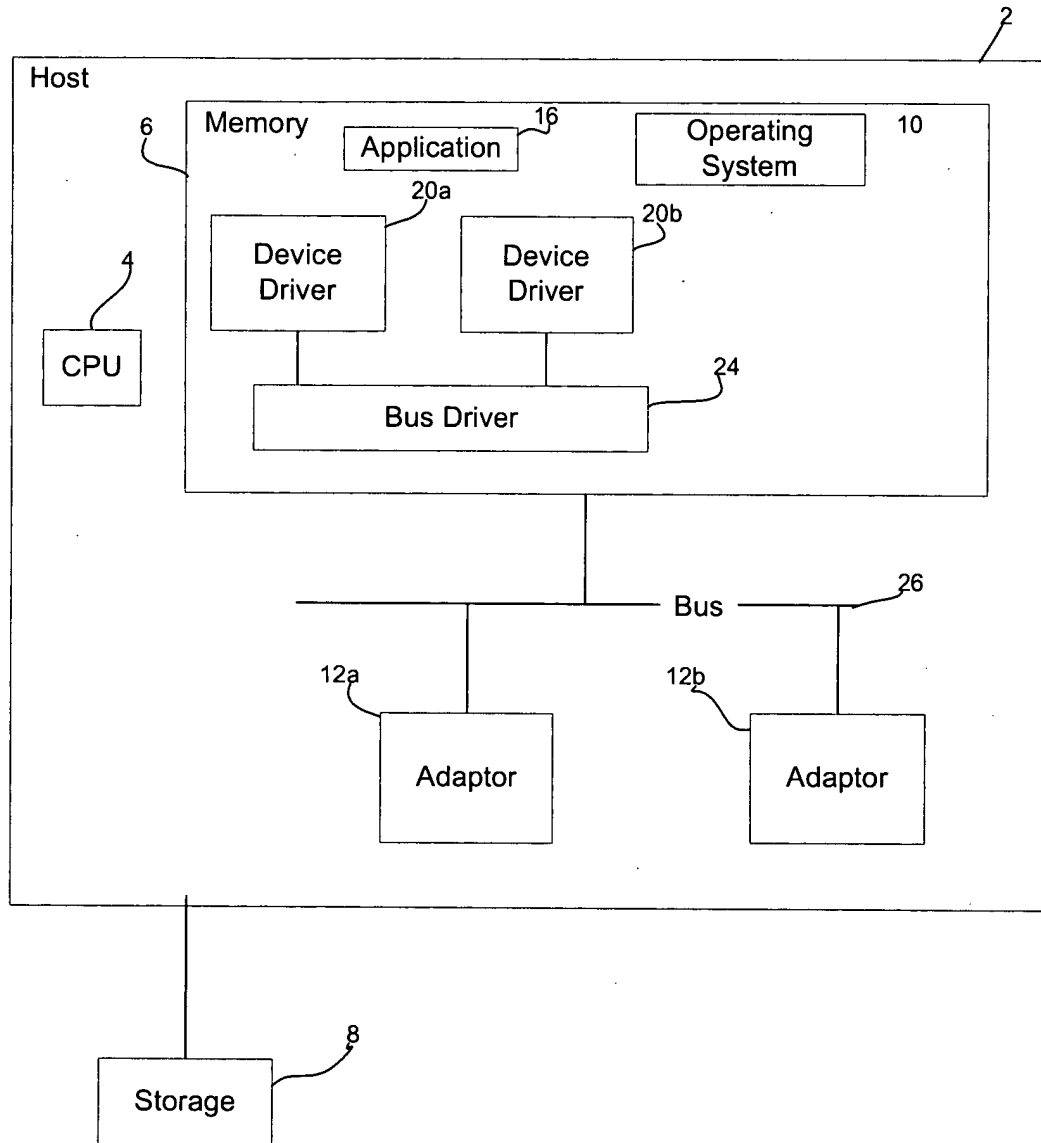


METHOD, SYSTEM, AND PROGRAM FOR GENERATING TOPOLOGY  
INFORMATION IDENTIFYING DEVICES IN A NETWORK TOPOLOGY

Inventor: Michele C. Clayton; Docket No. P17730

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FIG. 1



METHOD, SYSTEM, AND PROGRAM FOR GENERATING TOPOLOGY  
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FIG. 2

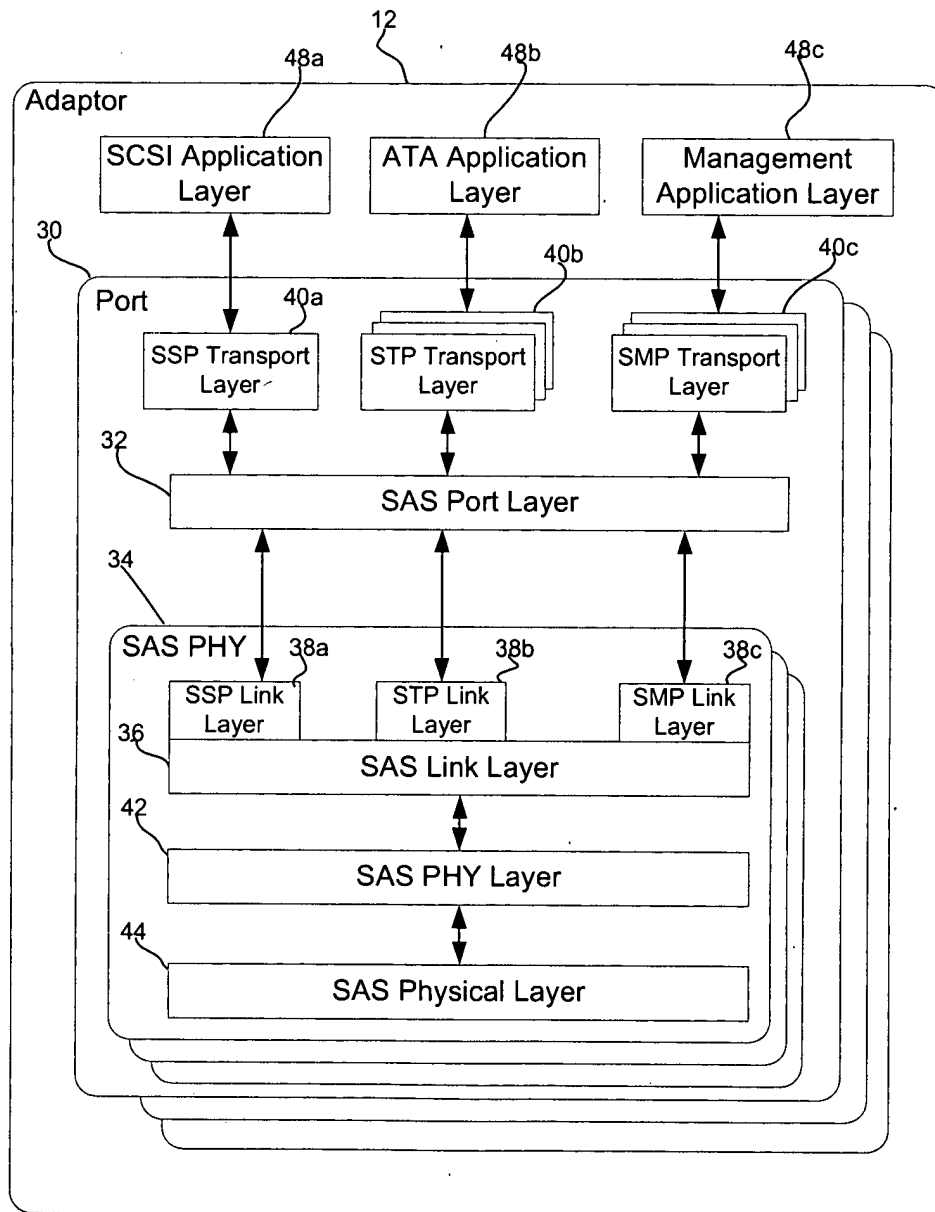
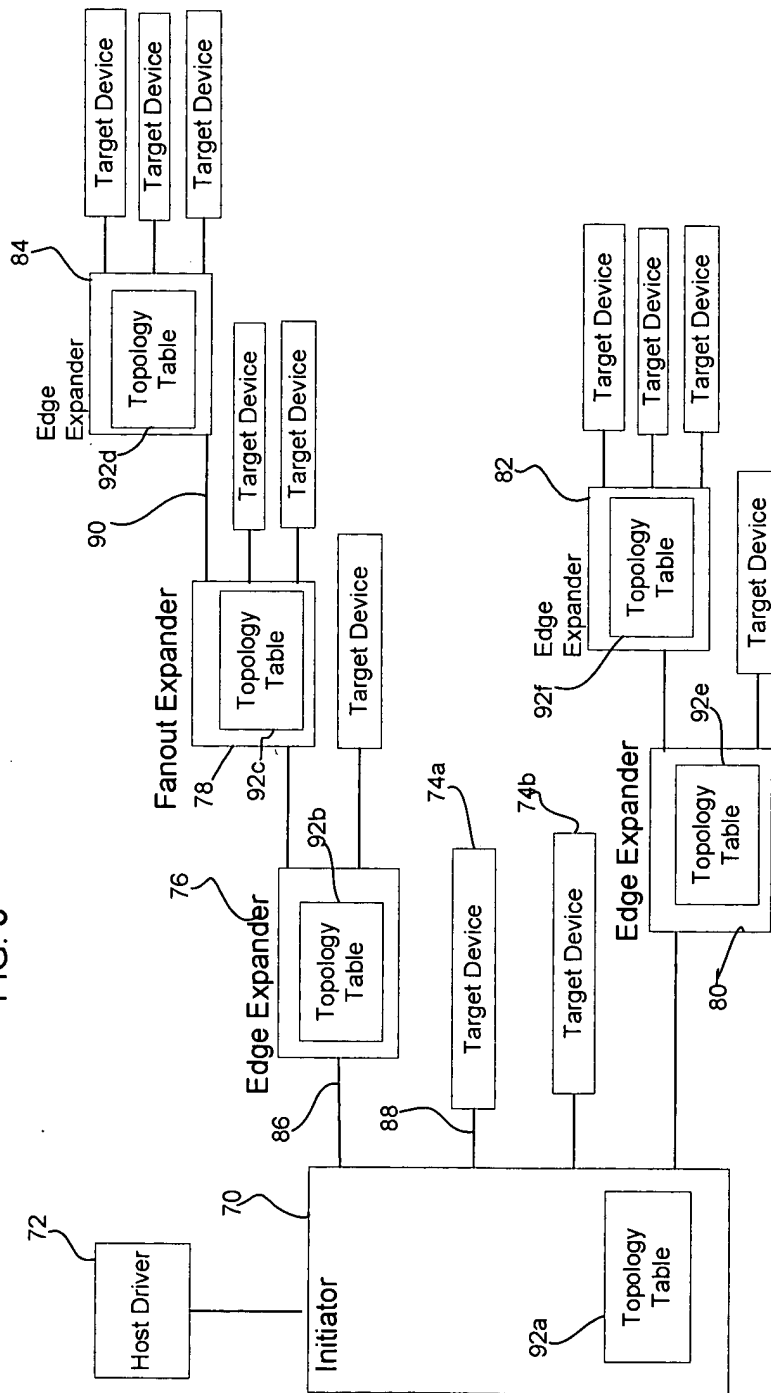


FIG. 3

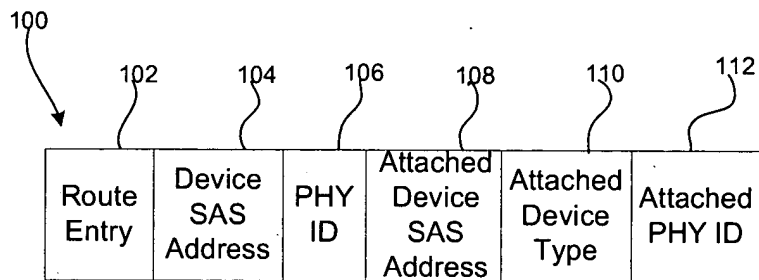


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FIG. 4



Topology Table Entry

```

graph TD
    150{{Initiate boot-up sequence  
for a device.}} --> 152[Perform identification  
sequence to determine  
devices to which you connect.]
    152 --> 154[Set topology table complete  
flag to "off".]
    154 --> 156[For each PHY i in device, add entry to  
topology table including including SAS  
address of device, PHY ID of PHY i;  
the SAS address of the device and the  
PHY ID of PHY attached to PHY i; and  
the device type of the attached device.]
    156 --> 158[For each PHY i in device, do:]
    158 --> 160{Is PHY i attached  
to an expander?}
    160 -- Yes --> 162{Has topology  
table of attached device  
including PHY i already  
been merged with device  
topology table?}
    160 -- No --> 166[Go back to block 158 for  
next PHY in device.]
    162 -- Yes --> 166
    162 -- No --> 164[Send handshake to attached PHY  
connected to PHY i to obtain  
topology table of attached device  
including attached PHY.]
    164 --> 162

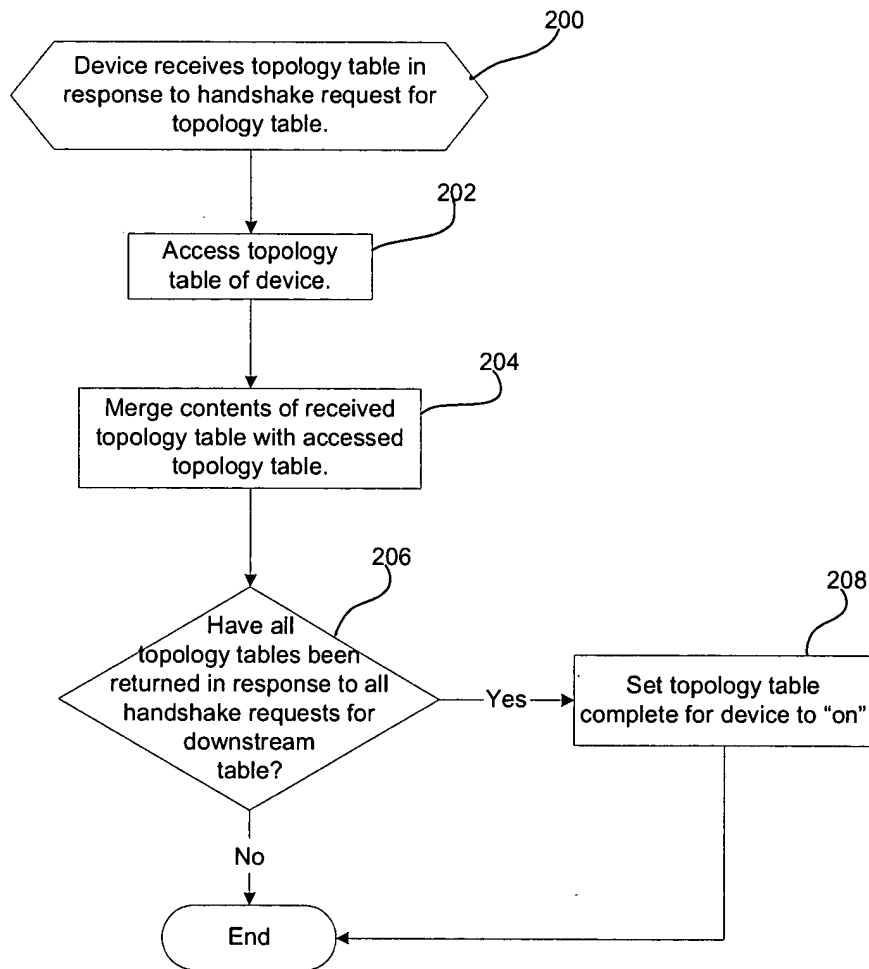
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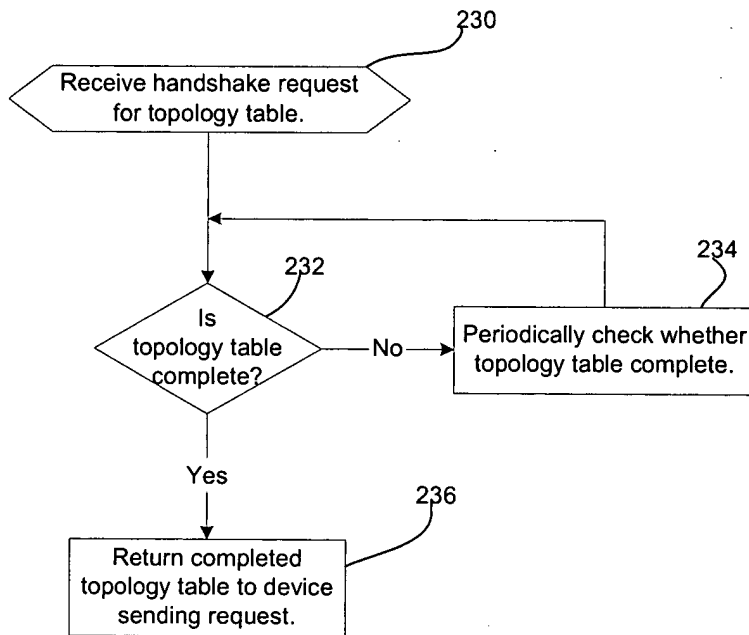
FIG. 6



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FIG. 7

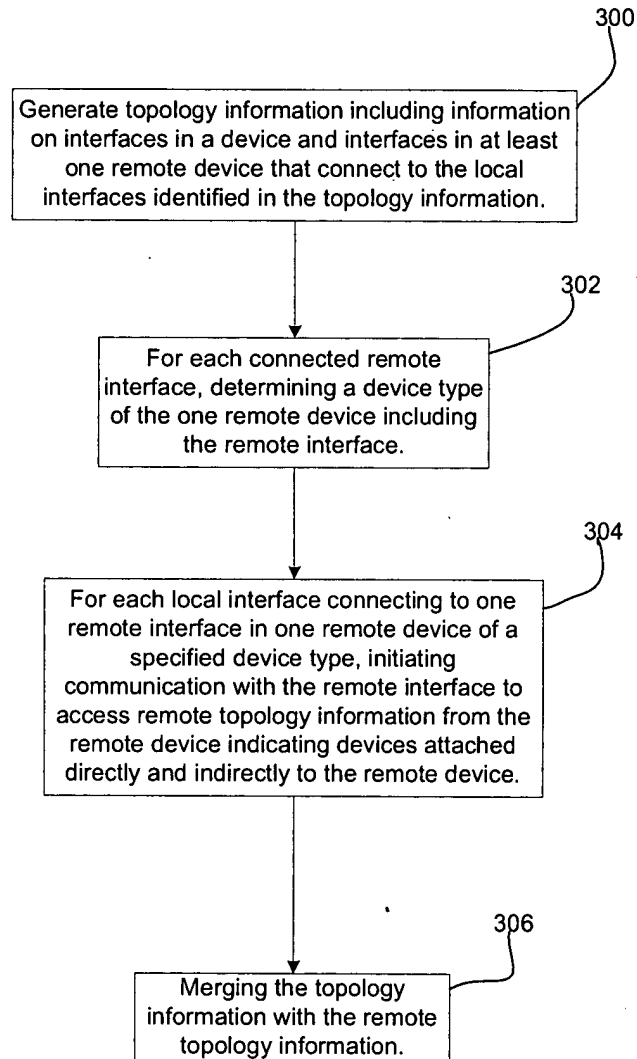


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FIG. 8





METHOD, SYSTEM, AND PROGRAM FOR GENERATING TOPOLOGY  
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FIG. 9

